

Claims.

5

1. A device for operating a sun shade, an umbrella or the like, of the type which mainly consists of an upward directed support and an arm which is fixed to the support by means of a hinge pin and onto which is hinge-mounted a
10 shade, whereby this shade at least consists of a flange onto which ribs are hinge-mounted and of a bush which is connected to the aforesaid ribs by means of spokes, wherein the device is provided with means for folding and unfolding the arm between the folded position, whereby the arm lies
15 against or practically against the support, and an unfolded position whereby the arm is mainly directed crosswise to the support; means for rotating the shade, when unfolding or folding the arm, in relation to the aforesaid arm; and means for opening and closing the shade.

20

2. The device according to claim 1, wherein, when folded, the arm lies against, or practically against the support, whereas the shade lies against or practically against the arm.

25

3. The device according to claim 1, wherein the means for folding and unfolding the arm are formed in that the support consists of a lower fixed pipe with an upper extendible pipe in it upon which the aforesaid arm is
30 provided, and whereby between the arm and the support is provided a bar which is hinge-mounted to the lower pipe of

the support with one far end and which is hinge-mounted to the arm with the other far end.

4. The device according to claim 3, wherein between the lower pipe and the upper pipe is provided a drive.

5. The device according to claim 4, wherein the above-mentioned drive consists of a motor in the lower pipe whose outgoing shaft is provided with screw thread which can work in conjunction with screw thread in a cross wall at the lower end of the upper pipe.

6. The device according to claim 4, wherein the drive is formed of a cylinder.

15

7. The device according to claim 1, wherein the above-mentioned means for rotating the shade in relation to the arm, when folding and unfolding the arm, are formed in that the above-mentioned bush of the shade is provided on the arm by means of a hinge pin, whereby between this bush and the support is provided a bar of which one far end is provided on the bush by means of a hinge pin, while the other far end is fixed on the support by means of a hinge pin.

25

8. The device according to claim 7, wherein the length of the bar between the bush and the support is selected such that the centre distance between the hinge pins and of said bar is equal to the centre distance between the hinge pin of the arm and the hinge pin of the bush.

30

9. The device according to claim 7, wherein the centre distance between the hinge pin of the bush and the hinge pin of the bar on the side of the bush is equal to the centre distance between the hinge pin of the arm and the hinge pin of the bar on the side of the support.

10. The device according to claim 1, wherein the above-mentioned means for folding and unfolding the shade consist of a motor provided with a cable pulley on its outgoing shaft upon which is wound at least one cable which is fixed to the aforesaid flange of the shade, either directly or indirectly.

11. The device according to claim 10, wherein the above-mentioned motor is provided in the upper pipe of the support.

12. The device according to claim 11, wherein the above-mentioned cable can be guided through the bush via an opening in the wall of the bush.

13. The device according to claim 12, wherein the above-mentioned cable is guided over a cable wheel in the bush.

14. The device according to claim 10, wherein the flange of the shade is provided on a bar onto which the aforesaid cable is fixed and which, when the shade is opened, rests on the bush.